

**Record 18: JP7304830A****(ENG) MULTISTAGE POLYMERIZATION OF OLEFIN****Assignee:** MITSUI PETROCHEMICAL IND

[ no drawing available]

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**Abstract:** (ENG) <sec>PURPOSE: To obtain a polyolefin excellent in thermal stability and moldability, also in transparency, mechanical strength and blocking resistance, useful for e.g. specification bags, by copolymerization between ethylene and an  $\alpha$ -olefin in plural polymerizers in the presence of respective specific catalysts. CONSTITUTION: The objective polyolefin is obtained by the following two consecutive processes: ethylene and an  $\alpha$ -olefin are copolymerized in a polymerizer in the presence of (A) a catalyst containing (1) an organoaluminum oxy compound, (2) one kind of compounds of formula  $MLx$  [M is a group IV (transition metal atom; L is a ligand for M; at least two of the L's each is (methyl) cyclopentadienyl, etc.; x is the valence of M] and (3) one kind of compounds of formula  $ML_2$  [L is a ligand for M; at least two of the L's each is a (substituted) cycloalkadienyl, etc.] at the molar ratio (2)/(3) of (99:1) to (80:20), and further copolymerization is conducted in a second polymerizer in the presence of (B) another catalyst containing the component (1) and (4) a group IV transition metal compound. </sec>

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